

## RESEARCH REPORT DOCUMENTATION PAGE

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14. Supplementary Notes			
15. Abstract  <u><b>Objective</b></u>  The objective is to determine if placing pavement markings on a rumble strip will improve the marking's wet-night retroreflectivity.  <u><b>Scope</b></u>  To test the effectiveness of "rumble stripes", the NDDOT has constructed a test section as part of project AC-NH-2-281(025)049. This project was the rehabilitation of a two lane US Highway that serves as an interregional corridor across North Dakota. The rehabilitation included a blended base with an asphalt surface. The entire project had rumble strips ground into both shoulders. A three mile test section was selected by the Valley City District. The test section was constructed using a modified location of the rumble strips on both shoulders. The edge lines were placed on the rumble strips.  <u><b>Summary</b></u>  The position of the markings, on the rumble strip, doesn't appear to greatly affect the day-time appearance of the marking. The application of marking paint on fog seal material may cause some durability problems but so far it has only caused some limited problems in one area with unusually thick fog seal material. Wet-night retroreflectivity readings appear to show that "rumble stripes" provide higher retroreflectivity readings than nearby flat markings. District maintenance personnel will observe and comment on the retroreflectivity of the "rumble stripes" in various nighttime weather conditions.			
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